Abstract of the Disclosure

A method selects source and channel codec parameters according to varying channel conditions and signal to noise ratio for a given distortion constraint. The processes of source and channel encoding and decoding with the selected parameter values and transmit power level per quality layer minimize a total energy consumption for delivery of multimedia content from a transmitting terminal to a receiving terminal. The total energy consumption is defined as the energy consumed while processing and transmitting the multimedia. Coding parameters, such as channel code rates, error resilience redundancy, unequal error protection level, and transmit power level can vary from layer to layer.